Optical Coherence Domain Reflectometer—InsideView™ **OCDR-1000**

InsideViewTM is an optical coherence domain reflectometer (OCDR-1000) designed to obtain space-resolved reflection information inside a fiber optical component, such as a Photonic Integrated Circuit (PIC), for diagnosing quality or design issues. It is based on a polarization optimized white light interferometer proprietary to General Photonics. It performs the functions of the discontinued Agilent 8504B Reflectometer and more – but with better polarization management, spatial resolution. and accuracy; larger scan range and dynamic range; and smaller size and weight. It is a low cost alternative to OFDR technology, with a much higher dynamic range that avoids the masking of small reflection peaks by the large reflections typical of the input surface of an optical device.

InsideView[™] can measure devices with a length of up to 600mm. A set of length matching delay modules is available to match the pigtail lengths of the devices to be measured and place the measurement span in the region of interest. With a reflection dynamic range of over 80 dB and a spatial resolution down to 10 µm, this instrument helps engineers and researchers see the inside of an optical device to precisely identify defects and their locations.



Preliminary Specifications

available upon request 0 dB 3 µm, depending on DUT dispersion nm (±0.01%) n //sec µm with connectors, with fusion splices m ± 30 nm
µm, depending on DUT dispersion nm (±0.01%) n //sec um with connectors, with fusion splices
nm (±0.01%) n /sec um with connectors, with fusion splices
nm (±0.01%) n /sec um with connectors, with fusion splices
vsec um with connectors, with fusion splices
um with connectors, with fusion splices
with fusion splices
m ± 30 nm
m ± 30 nm
± 10 nm
3m
/iew™ data analysis/display software
0 °C
60 °C
0VAC, 50-60 Hz
0
ok computer with USB connection
ok computer with 03b connection
C standard or FC/PC
-

Applications:

- Optical Characterization of:
 - Photonic Integrated Circuits
 - Fiber Optic Components
- Accurate Measurement of:
 - Return Loss
 - Distributed Reflectivity

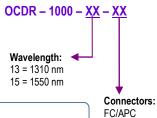
Unique Features:

- Dynamic Range: over 80 dB
 - Scan range: 600 mm (400 mm in fiber)
- Spatial Resolution: down to 10 µm
- Compact & Lightweight
- Built-In Light Source
- Performs functions of discontinued Agilent 8504B Reflectometer- and More!

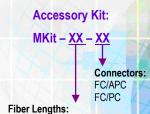
- At 23±5°C.
- Delay in air.

Ordering Information:

Instrument:



FC/PC



001: Set of 7 fiber-optic delay modules of lengths 1.2 to 3 meters, at 0.3m intervals. Cust: Custom length fiber optic delay modules, to be specified by customer.

The OCDR-1000 comes with one 1 meter fiber optic delay module with connector type matched to the OCDR.



General Photonics